

UNYTS Training

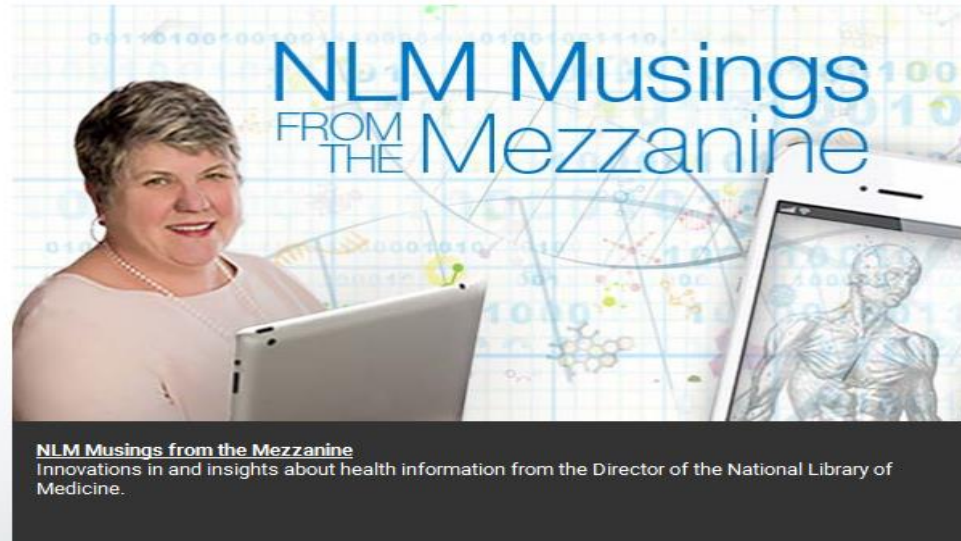
National Library of Medicine (NLM) and Other Reliable Resources for K-12

Lydia N. Collins, MLIS

Consumer Health Coordinator

Databases

PubMed/MEDLINE
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MedlinePlus
TOXNET
Images from the History of Medicine
Digital Collections
LocatorPlus
All NLM Databases & APIs



NLM Musings from the Mezzanine
Innovations in and insights about health information from the Director of the National Library of Medicine.

1 2 3 4

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Search biomedical literature
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NLM for You

Grants & Funding
Meaningful Use Tools
Training & Outreach
National Network of Medical Libraries
Regional Activities

News, Events, Videos

- Amanda J. Wilson appointed Head, National Network Coordinating Office, Library Operations, NLM (01/09/17)
- Mark Ziomek appointed Chief, Public Services Division, Library Operations, NLM (01/09/17)
- NLM Director Dr. Patricia Flatley Brennan

“The National Library of Medicine (NLM), on the campus of the National Institutes of Health in Bethesda, Maryland, has been a center of information innovation since its founding in 1836”.

Regional Medical Libraries

Explore the pinpoints below and learn more about the NNLM Regional Medical Libraries and their respective territories.



[URL](#) for National Network of Libraries of Medicine (NNLM) and [URL](#) to NNLM Middle Atlantic Region (NNLM MAR)

General Health/Drug Information



[Health Topics](#)
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Health Topics

Find information on health, wellness, disorders and conditions



Drugs & Supplements

Learn about prescription drugs, over-the-counter medicines, herbs, and supplements



Videos & Tools

Discover tutorials, health and surgery videos, games, and quizzes



Medical Encyclopedia

Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster

GO



It's Back-to-School time!

Tips for parents and kids at our [School Health page](#).

1

2

3

4



Today's Health News

[Childhood Cancer Death Rates Continue to Fall: CDC](#)

[For Kids Playing Pokemon Go, Catch These Safety Tips](#)

[Severe Obesity and Heart Failure](#)

[More health news](#)

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Search [ClinicalTrials.gov](#) for drug and treatment studies.

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Health Topics
















Read about symptoms, causes, treatment and prevention for over 975 diseases, illnesses, health conditions and wellness issues. MedlinePlus health topics are regularly reviewed, and links are updated daily.

Find topics A-Z

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Body Location/Systems

-  [Blood, Heart and Circulation](#)
-  [Bones, Joints and Muscles](#)
-  [Brain and Nerves](#)
-  [Digestive System](#)
-  [Ear, Nose and Throat](#)
-  [Endocrine System](#)
-  [Eyes and Vision](#)
-  [Immune System](#)
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-  [Lungs and Breathing](#)
-  [Mouth and Teeth](#)
-  [Skin, Hair and Nails](#)
-  [Female Reproductive System](#)
-  [Male Reproductive System](#)

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- [Cancers](#)
- [Diabetes Mellitus](#)
- [Genetics/Birth Defects](#)
- [Infections](#)
- [Injuries and Wounds](#)
- [Mental Health and Behavior](#)
- [Metabolic Problems](#)
- [Poisoning, Toxicology, Environmental Health](#)
- [Pregnancy and Reproduction](#)
- [Substance Abuse Problems](#)

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- [Complementary and Alternative Therapies](#)
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- [Children and Teenagers](#)
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Health and Wellness

- [Disasters](#)
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Drugs, Herbs and Supplements

Drugs

Learn about your prescription drugs and over-the-counter medicines. Includes side effects, dosage, special precautions, and more.

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[U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [0-9](#)

For FDA approved labels included in drug packages, see [DailyMed](#).

Herbs and Supplements

Browse dietary supplements and herbal remedies to learn about their effectiveness, usual dosage, and drug interactions.

[All herbs and supplements](#)

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Videos & Tools



Watch health videos on topics such as anatomy, body systems, and surgical procedures. Test your knowledge with interactive tutorials and games. Check your health with calculators and quizzes.



Health Videos

View videos of anatomy and body systems and how diseases and conditions affect them.



Surgery Videos

Find videos of operations and surgical procedures.



Health Check Tools

Check your health with interactive calculators, quizzes and questionnaires.



Games

Boost your health knowledge by playing interactive health games.

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Blood Shortage Prompts Call for Donations

American Red Cross says declines seen in summer leading to dangerously low supply

By Robert Preidt

Thursday, July 6, 2017



THURSDAY, July 6, 2017 (HealthDay News) -- The American Red Cross needs your blood, and it needs it now.

The group issued an emergency call for donations on Wednesday. Over the past two months, there have been about 61,000 fewer donations than what is needed, the organization said.

"The decline in summer donations is causing a significant draw-down of our overall blood supply, and we urgently need people to give now to restock hospital shelves and help save lives," said Shaun Gilmore, president of Red Cross Biomedical Services.

The July 4th holiday has been especially challenging: Nearly 700 fewer blood drives were held this week than during an average week. That's the equivalent of no blood drives nationwide for an entire day, the agency explained.

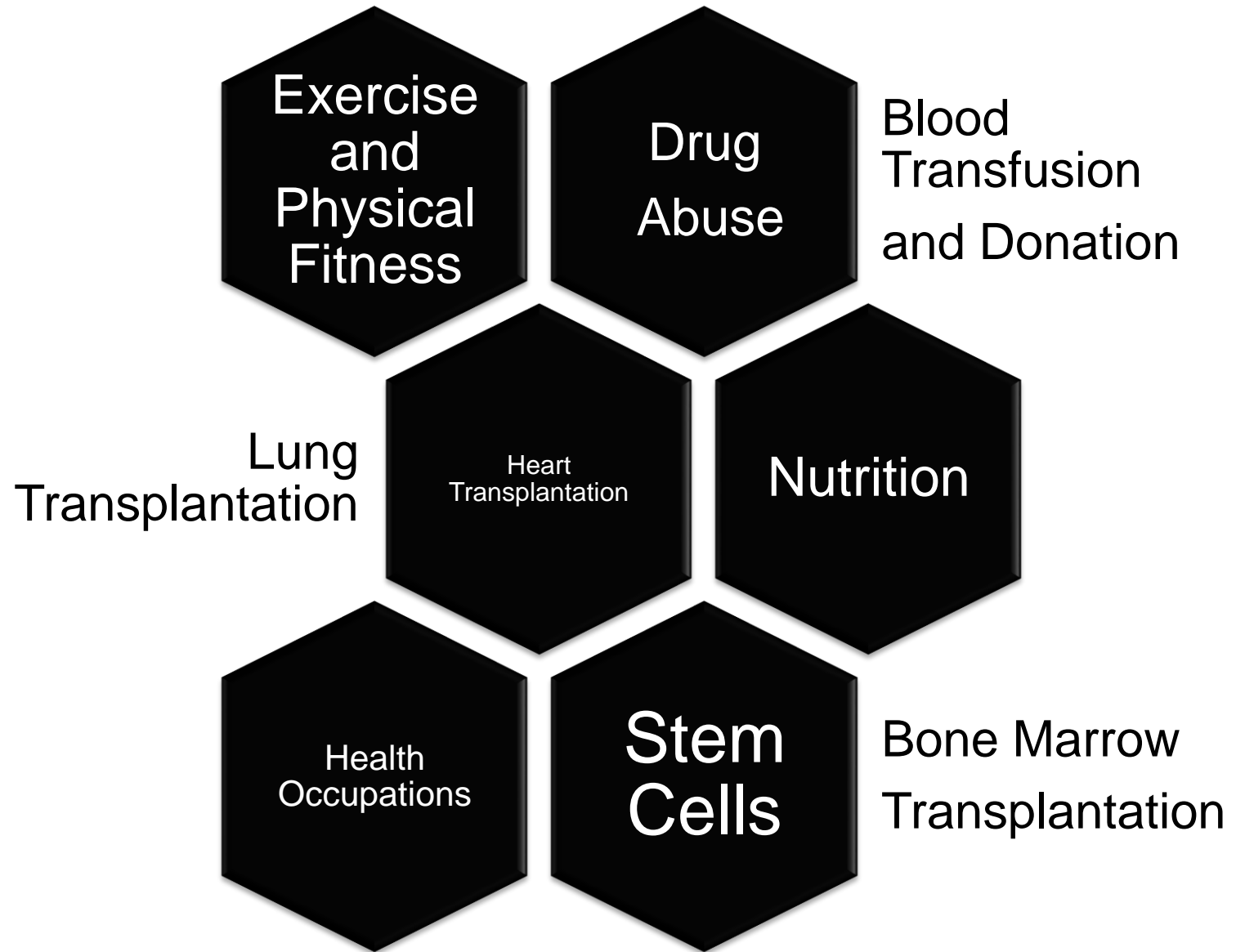
"Every day, patients recovering from accidents or those receiving treatments for cancer or blood disorders rely on lifesaving blood products, regardless of the season," Gilmore added in a Red Cross news release.



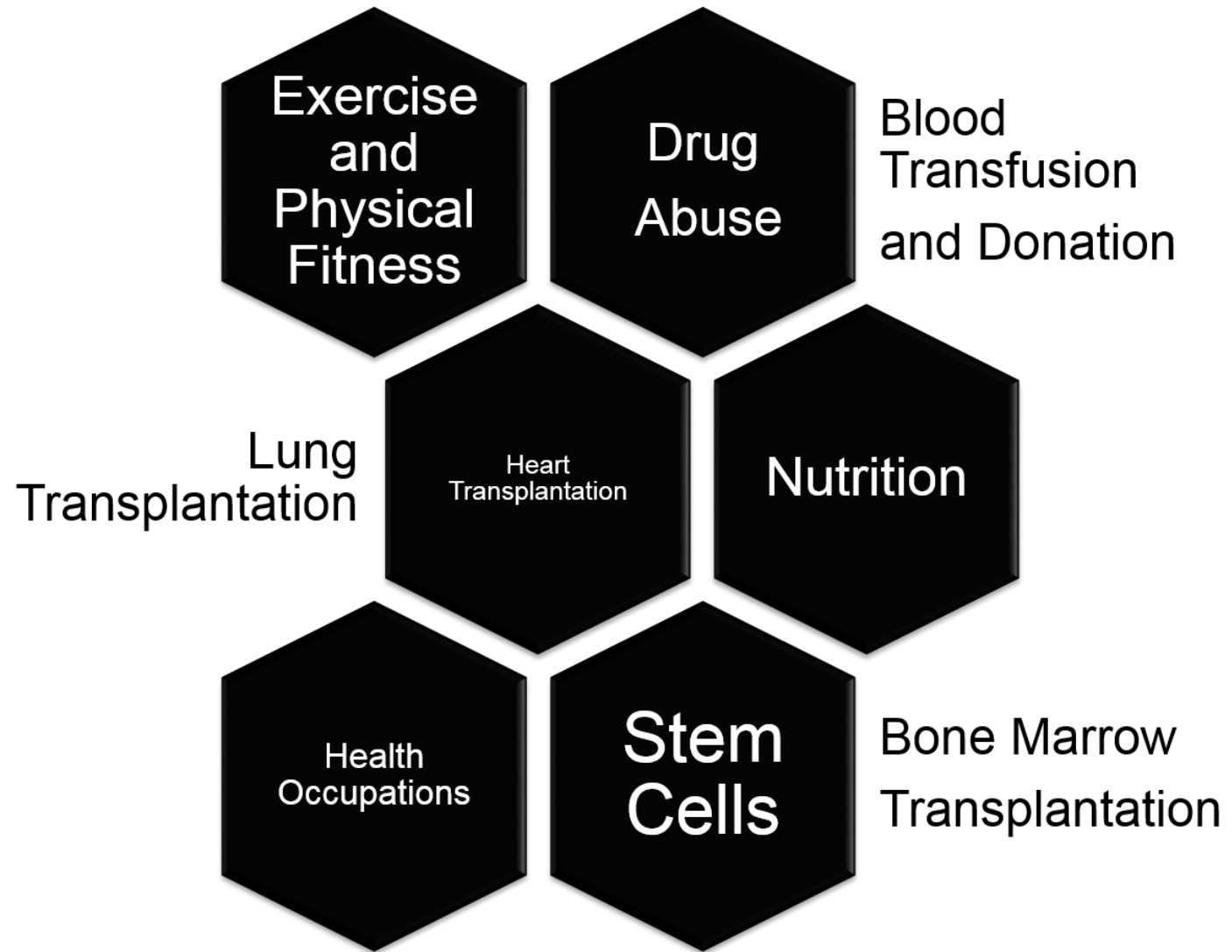
Related MedlinePlus Health Topics

[Blood Transfusion and Donation](#)

MedlinePlus: Topics of Interest



MedlinePlus: Topics of Interest





PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

PubMed Commons



Featured comment - Apr 20

Cicely Saunders Journal Club & author @GarridoMelissa discuss evaluation of cost-saving effects of palliative care. 1.usa.gov/1LJSwMN

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PMC

PubMed Central® (PMC) is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM).

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A whole new way to read scientific literature at PubMed Central



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When you need articles on a routine basis, consider using the PubMed Order option under the Send to menu.

- **To register with a delivery service**

- The NLM-sponsored **Loansome Doc** is PubMed's default article service; full-text articles may be ordered from participating libraries
- Alternative document delivery providers are listed in **My NCBI** under **Site Preferences, Document Delivery**.

- **Register for Loansome Doc**

1. Access Loansome Doc at:
<https://docline.gov/loansome/login.cfm>
2. Click **Sign Up!**

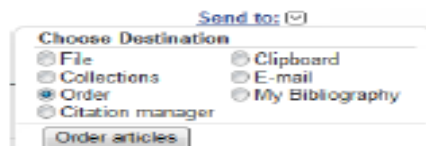


- Search for a provider in your area
- Carefully review the displayed information to identify a library that will provide the service you desire as fees and services vary among the libraries
- It is recommended you contact the selected library prior to registering
- Always contact the library after registering with Loansome Doc and before the first order

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- Click the check box next to the desired citation(s); move to other pages within your results to select additional citations or hold citations on the Clipboard before ordering
- From the **Send to** box, select **Order**; then click the **Order Articles** button



- Follow the on-screen directions to receive articles from participating institutions

For More Information

In the United States, contact the National Network of Libraries of Medicine (NNLM) at <https://nnlm.gov/>. Network members offering Loansome Doc are listed at: <https://nnlm.gov/members/>.

In Canada, contact the National Research Council Canada Institute for Scientific and Technical Information (NRC-CISTI) at 1-800-668-1222 for library service information.

Funded under Cooperative Agreement No. UG4LM012341 with UCLA and awarded by the DHHS, NIH, National Library of Medicine, and developed and updated by the NNLM staff.

Reviewed: June 2017

*This brochure is freely available at:
<https://nnlm.gov/trifolds/fulltexttri.pdf>*



U.S. National Library of Medicine

Full Text and PubMed®

PubMed® (<http://www.pubmed.gov/>) is the National Library of Medicine (NLM)'s biomedical journal citation database and does not include copies of journal articles.

However, PubMed does offer links to the full text of articles when those links are available.

Full Text articles offered through

- **PMC** (formerly **PubMed Central**), NLM's free digital archive of biomedical and life sciences journal literature
- **NCBI Bookshelf** of biomedical books and government reports
- Publishers who offer free or pay-per-view access to articles on their websites
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New AIDSinfo
infographics make
HIV-related concepts
easy to understand!

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News

April 22, 2016

[AIDSinfo At-a-Glance Issue 10](#)

April 13, 2016

[Animal Study Paints Picture of the Earliest Immune Responses to HIV](#)

April 11, 2016

[NIH Sequences Genome of a Fungus that Causes Life-Threatening Pneumonia](#)

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Guidelines

Federally approved HIV/AIDS medical practice guidelines

- [View and Download the Guidelines](#)
- [Adult ARV Guidelines](#)
- [Pediatric ARV Guidelines](#)
- [Perinatal Guidelines](#)
- [Adult OI Guidelines](#)
- [Pediatric OI Guidelines](#)



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Search tool to find HIV/AIDS-related clinical trials

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- [HIV Therapeutic Vaccine Clinical Trials](#)



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Genetics





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Reference

Your Guide to Understanding
Genetic Conditions

[Health Conditions](#)[Genes](#)[Chromosomes & mtDNA](#)[Resources](#)[Help Me Understand Genetics](#)

Genetics Home Reference provides consumer-friendly information about the effects of genetic variation on human health.



Health Conditions

More than 1,100 health conditions, diseases, and syndromes

[Browse A-Z](#)

Genes

More than 1,300 genes and the health effects of genetic changes

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[7q11.23 duplication syndrome](#)[Stüve-Wiedemann syndrome](#)[fibrochondrogenesis](#)[Past 12 Months](#)

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Bulletins

[URL](#) for Genetics Home Reference

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Home

Topics

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Experiments

Teacher
Resources

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Genetics

Highlights

search...

GO



Cell Biology

The study of the cell, including mitosis and meiosis



DNA, Genes, Chromosomes

The building blocks of inheritance



Heredity/Inheritance Patterns

The genetic transmission of traits



Epigenetics/Inheritance and the Environment

The genome's dynamic response to the environment



Genetic Conditions

Conditions caused by gene variations or mutations



Evolution

Processes by which organisms are changed over time



Biostatistics

The use of mathematics to investigate life science related problems



Biotechnology

Biological techniques used to enhance products



DNA Forensics

The application of genetic testing for legal purposes



Top Issues In Genetics

Select genetic topics of popular interest



HARRY POTTER'S WORLD

RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

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“There was a lot more to magic,
as Harry quickly found out,
than waving your wand
and saying a few funny words.”

— *Harry Potter and the Philosopher's Stone*,
J. K. Rowling



Illustration of an owl
Konrad Gesner,
Historiae Animalium, 1551



EXHIBITION



EDUCATION RESOURCES



TRAVELING INFORMATION



[URL](#) for Harry Potter's World



Lesson Plans



Higher Education



Online Activities



Other Resources

LESSON PLANS

BOGGART AND FEAR IN *Harry Potter*

grade level: 7–10 | subject: history and social studies

This lesson plan examines two text selections from *Harry Potter and the Prisoner of Azkaban* and *Harry Potter and the Order of the Phoenix*, books three and five of the series, which feature a boggart—a shape-shifter that turns into whatever one fears most. Students evaluate various characters' fears represented by the boggart and build connections between their analyses of the characters' fears and the students' own experiences.

GENETIC TRAITS IN *Harry Potter*

grade level: 5–8 | subject: science and technology

This lesson introduces students to the concept of genetic inheritance. It consists of two classes and a pre-lesson activity in which students learn genetic terms and concepts, such as DNA, chromosome, gene, allele, homozygous, heterozygous, recessive and dominant genes, genotype, phenotype, complex traits, Mendelian inheritance, and Punnett square. Students then apply the concepts to identify possible inheritance patterns and genotypes of magical ability demonstrated by several characters in the *Harry Potter* series.

[URL](#) to *Harry Potter's* World Lesson Plans

Interdisciplinary Resources



EXHIBITIONS

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medicine & the arts



FRANKENSTEIN: Penetrating the
Secrets of Nature



AND THERE'S THE HUMOR OF IT:
Shakespeare and the Four Humors



THE LITERATURE OF PRESCRIPTION:
Charlotte Perkins Gilman and "The
Yellow Wallpaper"

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science & society



PICK YOUR POISON: Intoxicating
Pleasures & Medical Prescriptions



FROM DNA TO BEER: Harnessing
Nature in Medicine and Industry

AIDS
IT AIN'T OVER YET

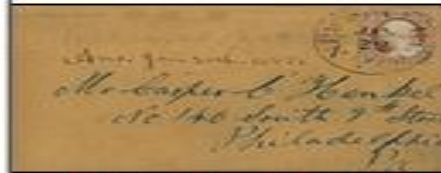
SURVIVING AND THRIVING: AIDS,
Politics and Culture

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patients & practitioners



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Zwergling Postcard Collection



THE HENKEL PHYSICIANS: A Family's
Life in Letters



HEALING THE NATION: Stories from
the Civil War

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the technology of medicine



VISIBLE PROOFS: Forensic Views of
the Body



THE ONCE AND FUTURE WEB: Worlds
Woven by Telegraph and Internet

FRANKENSTEIN:

PENETRATING *the* SECRETS *of* NATURE

On a dark and stormy night in 1816, Mary Shelley began writing a story that posed profound questions about individual and societal responsibility for other people.

EXPLORE THE EXHIBITION

SEE THE
DIGITAL GALLERY



FIND EDUCATIONAL RESOURCES





Changing *the face* of Medicine

HOME
RESOURCES

VISIT
ACTIVITIES

PHYSICIANS
SHARE *your* STORY



Discover the many ways that women have influenced and enhanced the practice of medicine. The individuals featured here provide an intriguing glimpse of the broader community of women doctors who are making a difference. The National Library of Medicine is pleased to present this exhibition honoring the lives and accomplishments of these women in the hope of inspiring a new generation of medical pioneers.



Explore *the* Exhibition

► VISIT

This exhibition at the National Library of Medicine closed on November 19, 2005. Its traveling exhibition [itinerary](#) is available online. Please refer to "On Exhibit at NLM" on the [Library's home page](#) for information on the current exhibition on display at the Library.

► PHYSICIANS

Perform your own customized database [search](#) to learn about the woman physicians featured in this exhibition. Learn about their sources of inspiration, the challenges they faced, and their accomplishments.

► RESOURCES

Students, find out if a [career in medicine](#) is for you through the guide to medical career Web sites. Teachers, print classroom [lesson plans](#) and view an extensive [bibliography](#) including books and videos.

New Book! [Women Physicians and the Cultures of Medicine](#).

► ACTIVITIES

Check out these online [interactive activities](#) that use games and learning modules to bring issues of science and


► SHARE your STORY

[Post your story](#) about a woman physician who you think should be part of this project and read stories that others have

LOCAL LEGENDS

Circulation Station (Blood & Blood Donation)

OVERVIEW**THE BODY'S SUPERHIGHWAY****COMPLETE THE LOOP****A DOCTOR MAKING A DIFFERENCE**✕ CLOSE



Circulation Station

Put your fingers on your wrist. Feel something throbbing just below the surface of your skin? It's your pulse, letting you know that your heart is working hard. Each time your heart beats, it pumps blood along a network of tubes called blood vessels. This network, along with your heart, is known as the circulatory system, and it reaches every cell in your body. Your blood travels in a never-ending cycle, delivering supplies and taking away wastes. Within your blood, red blood cells have a specialized task. They pick up oxygen in your lungs and carry it to your body's tissues and organs. Your blood then transports carbon dioxide back to the lungs where you can breathe it out.

► Roll over the image to explore the circulatory system.

BEGIN ▶

[URL](#) to Circulation Station (Changing the Face of Medicine)

The Doctor is In (Eye)

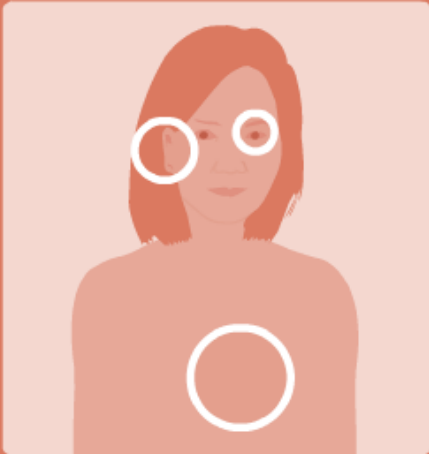
OVERVIEW

LOOKING AND LISTENING

PICK UP YOUR TOOLS

A DOCTOR MAKING A DIFFERENCE

× CLOSE



The Doctor Is In

You use your senses every day to understand the world around you. Look. What do you see? Touch. What do you feel? Listen. What do you hear?

Doctors use their senses to determine their patients' health. Often they rely on tools that help enhance their senses. The ophthalmoscope is an instrument with a special mirror that allows doctors to examine the interior of the eye. The otoscope is a flashlight with a magnifying lens that helps doctors to examine the inside of the ear. The stethoscope enhances the sounds inside of the body so that the doctor can listen in.

► **Roll over the image to explore the senses.**

BEGIN ▶

[URL](#) for The Doctor is In (Changing the Face of Medicine)

Profiles in Science

U.S. NATIONAL LIBRARY OF MEDICINE



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Welcome to the National Library of Medicine's Profiles in Science® site!

This site celebrates twentieth-century leaders in [biomedical research](#) and [public health](#). It makes the archival collections of prominent scientists, physicians, and others who have [advanced the scientific enterprise](#) available to the public through modern digital technology.



**Christian B.
Anfinsen**



**Virginia
Apgar**



**Oswald T.
Avery**



**Julius
Axelrod**



**Paul
Berg**



**Francis
Crick**



**Michael E.
DeBakey**



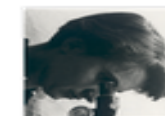
**Clarence
Dennis**



**Charles R.
Drew**



**John E.
Fogarty**



**Rosalind
Franklin**



**Donald S.
Fredrickson**

[URL](#) for Profiles in Science

The Charles R. Drew Papers



- [Biographical Information](#)
- [Education and Early Medical Career, 1922-1938](#)
- [Becoming "the Father of the Blood Bank," 1938-1941](#)
- ["My Chief Interest Was and Is Surgery"--Howard University, 1941-1950](#)
- [Further Readings](#)
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African American surgeon Charles Richard Drew (1904-1950) has been called "the father of the blood bank," for his outstanding role in conceiving, organizing, and directing America's first large-scale blood banking program during the early years of World War II. While best known for the blood bank work, Drew devoted much of his career to raising the standards of African American medical education at Howard University, where he trained a generation of outstanding surgeons, and worked to break through the barriers that segregation imposed on black physicians. His premature death in a car accident generated enduring stories that he was a victim of medical segregation, though this was repeatedly proved false.

The [Moorland-Spingarn Research Center at Howard University](#) in Washington, DC is the repository for the Charles R. Drew Papers, which range from 1900 to the 1980s. The collection contains photographs, personal and professional correspondence, published articles, lectures, laboratory notebooks, and research notes, along with materials relating to his death and legacy.

[URL](#) for Homepage and [URL](#) for Education Resources

The Michael E. DeBakey Papers



- [Biographical Information](#)
- [From Tulane School of Medicine to the U.S. Army, 1928-1946](#)
- [Building Baylor College of Medicine and Expanding Surgical Frontiers, 1948-1963](#)
- [New Directions for Cardiac Surgery and for Baylor, 1963-2008](#)
- [Supporting the Medical Enterprise: DeBakey and National Library of Medicine](#)
- [DeBakey as Medical Statesman](#)
- [Further Readings](#)
- [Glossary](#)

[Michael E. DeBakey Video Profile](#)

[All Documents](#)

[All Visuals](#)

Michael E. DeBakey (1908-2008) was a legendary American surgeon, educator, and medical statesman. During a career spanning 75 years, his work transformed cardiovascular surgery, raised medical education standards, and informed national health care policy. He pioneered dozens of operative procedures such as aneurysm repair, coronary bypass, and endarterectomy, which routinely save thousands of lives each year, and performed some of the first heart transplants. His inventions included the roller pump (a key component of heart-lung machines) as well as artificial hearts and ventricular assist pumps. He was a driving force in building Houston's Baylor University College of Medicine into a premier medical center, where he trained several generations of top surgeons from all over the world.

The National Library of Medicine holds a collection of Michael E. DeBakey Papers, which range from 1903 to 2009. The collection contains correspondence, administrative records, diaries, transcripts, publications, speeches, conference and awards material, subject files, photographs, and audiovisual media.

[URL](#) to Homepage

The Adrian Kantrowitz Papers



- [Biographical Information](#)
- [Access and Assistance: Learning How to Help Hearts, 1948-1955](#)
- [Expanding Technological Possibilities, 1955-1970](#)
- [Replacing Hearts: Left Ventricle Assist Devices and Transplants, 1960-1970](#)
- [Further Innovations in Diastolic Augmentation, 1968-2008](#)
- [Further Readings](#)
- [Glossary](#)

[All Documents](#)

[All Visuals](#)

Adrian Kantrowitz (1918-2008) is best known for performing the first human heart transplant in the United States, three days after South Africa's Christiaan Barnard performed the world's first such operation in December 1967. For most of his career however, Kantrowitz was one of America's most prolific surgeon-inventors, whose innovations included cardiac pacemakers, mechanical left heart devices, and the intraaortic balloon pump, which is still used in thousands of cardiac patients each year. His pioneering research consistently explored and elucidated the potentials as well as the limitations of bioelectronic technology. The National Library of Medicine is the repository for the Adrian Kantrowitz Papers, which range from 1944 to 2004. The collection contains photographs, slides, grant material, correspondence, publications, conference material, publicity clippings, and audio-visual media.

As part of its Profiles in Science project, the National Library of Medicine is digitizing and making available over the World Wide Web a selection of the Adrian Kantrowitz Papers, for use by educators and researchers. This Web site provides access to the portions of the Adrian Kantrowitz Papers that are now publicly available. Individuals interested in conducting research in the Adrian Kantrowitz Papers are invited to [contact](#) the National Library of Medicine.

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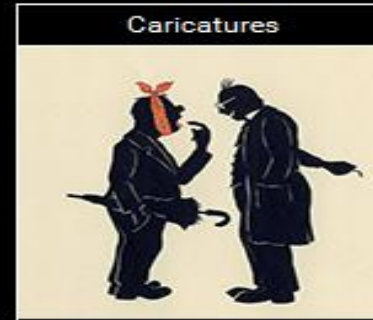
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The Public Health Film Goes to War – Overseas and at home during World War 2



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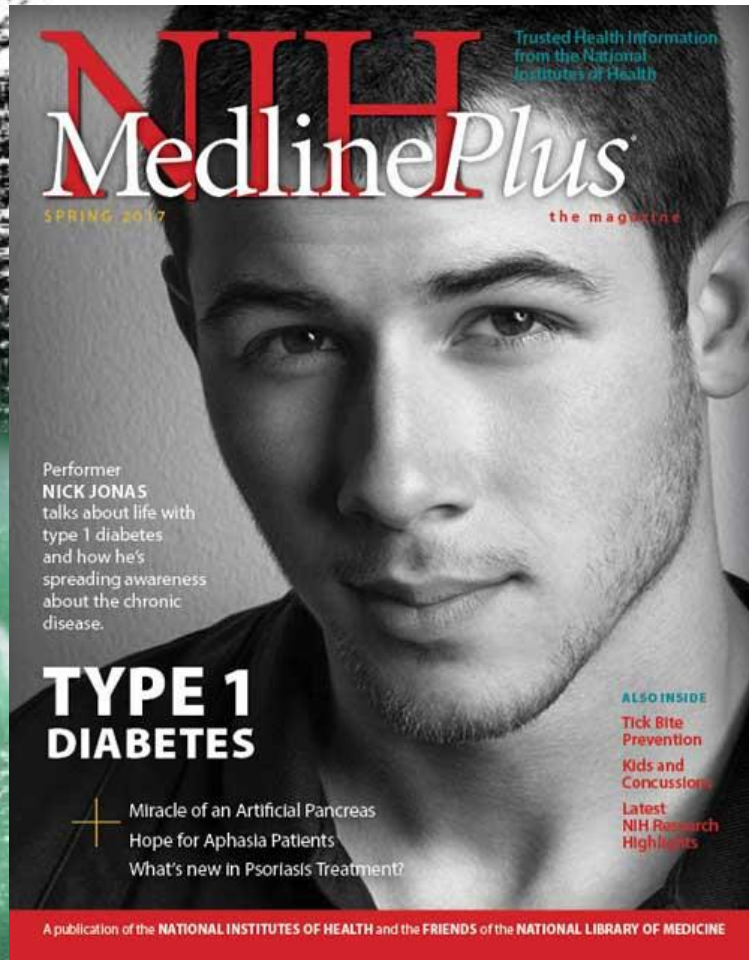
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Forensics and Medical Technology

Games

General Health

[URL](#) for K-12 Science and Health Education (NLM-SIS)



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Patricia Flatley Brennan, RN, PhD
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Deputy Director, NLM

Kathleen Cravedi
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Patricia Carson
Special Assistant to the Director, NLM

Fedora Braverman
MedlinePlus and MedlinePlus on español
teams, NLM

Kathryn McKay
Writer-Editor, NLM

Elliot Siegel, PhD
Outreach Consultant, NLM

Selby Bateman
Senior Editor

Peter Rebecke
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NLM MedlinePlus magazine is published by
Friends of the NLM in conjunction with

STRATCOMM
strategic communications
24 Prime Park Way, Suite 103, Natick, MA 01760
(508) 937-7000

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Inside News: 3 Sleep Apnea... 4 Middle-Age Spread... Explore Future Surgical Tools... Free eBooks on Health

Biosensors and Your Health

What's Your Body Trying to Tell You?

Your body alerts you to many aspects of your health. Your stomach growling tells you when to eat. A powerful yawn lets you know you're tired. Your body gives off many other valuable signals, but requires technology to detect them. Scientists are looking for new ways to track and use your body's signals to improve your health and manage disease.

Physical activity trackers and step counters are now helping people develop and maintain healthy habits. These devices have also opened doors for people to participate in health research. Now, researchers are designing more advanced devices called biosensors that measure biological, chemical, and physical signs of health.

"The variety of biosensors used by researchers, clinicians, and people from every walk of life is growing," says Dr. Seila Selimovic, a biosensors expert at NIH. "Some speed up test results so treatments can be started promptly. Others provide the benefits of continuous monitoring of health conditions. [Biosensors] function in fascinating ways. [They use] chemical attraction, electrical currents, light-detection systems, and compact wireless-sensing technologies."

The mercury thermometer is one of the earliest biosensor technologies used in medicine. In modern thermometers, mercury has been replaced by safer temperature-sensitive probes. But the goal is still



the same: to detect changes in your body temperature.

Another common biosensor used at home is the pregnancy test. Home pregnancy tests use color-changing strips to detect pregnancy hormones in urine. Pregnancy tests are still done in doctors' offices. But the home test has become a reliable alternative since it was first introduced more than 40 years ago.

The rapid strep test is another commonly used biosensor. If you have a sore throat, your doctor may want to use one to test for bacteria called streptococci. The rapid strep test can provide results from a swab of the back of your throat in a few minutes—with 95% accuracy. Your doctor may still send a throat swab to a lab to confirm a positive test result. But they can use the rapid test results to start treatment immediately.

In parts of the world where public health care isn't readily available, researchers hope to introduce rapid tests for people living in remote regions to test for infections like influenza, HIV, and hepatitis C. New biosensor technologies can now be combined with smart phone cameras and wireless signaling. These advances make health tests more portable and affordable than lab-based equipment.

Biosensors can also be used to continuously monitor a health condition. Blood-oxygen monitors

are now found throughout hospitals and in patients' homes. These devices detect changes in the level of oxygen in the bloodstream. A rapid drop in oxygen can cause brain injury and requires quick medical attention. Blood oxygen monitors are ideal for people with lung and heart conditions, those undergoing anesthesia, or those being treated in intensive, neonatal, or emergency care. Other biosensors can be used to continuously monitor your blood

continued on page 2

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THE PROJECT

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INFORMATION
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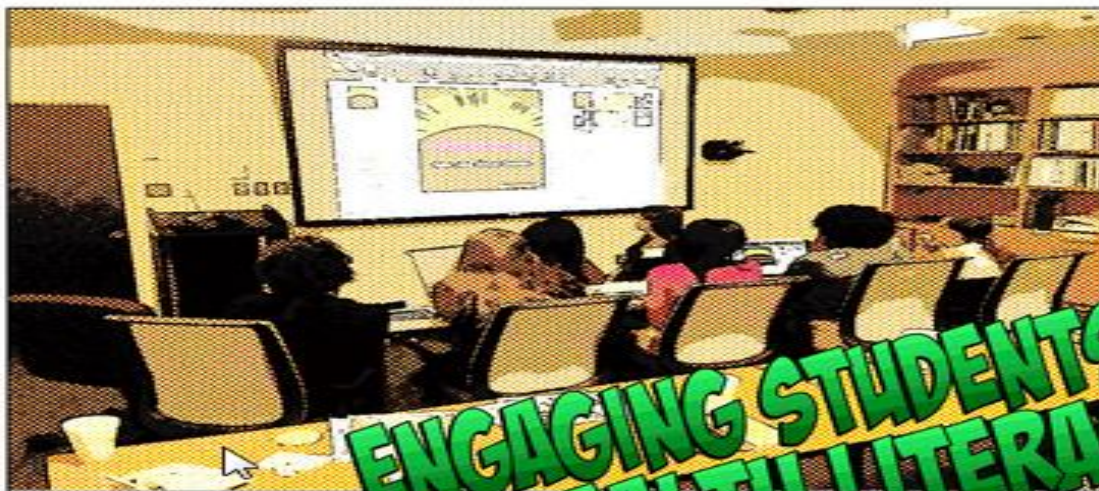
LITERACY
SUPER
POWERS

CURRENT
EDITIONS

Health Careers Comic Book Project

About the Project

The South Carolina AHEC partnered with the U.S. National Library of Medicine (NLM) and three Lowcountry high schools for a health information literacy project. Students were charged with researching public health themes and creating educational comic books geared toward middle school students. In the process, the high school students learned about helpful resources from the NLM, gained valuable communication, research and creative skills, increased their knowledge about health careers and improved their health literacy.



**ENGAGING STUDENTS
IN HEALTH LITERACY**

[URL](#) for Health Careers Comic Book Project (SC AHEC)



Teens: Drug Use and the Brain

Drug Facts

Get the latest on how drugs affect the brain and body. Featuring videos, games, blog posts and more!



Drugs & Health Blog

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Say What? “Receptor”



Could Snake Venom Help with the Opioid Problem?



Their Work Really Is Brain Science


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Environmental Health and Chemistry Resources



For Students

[ToxMystery](#)  (Grades 1-5+)

Toxie the Cat helps kids find the hazards hidden in each room and offers hints when needed. Also available in Spanish.

[Tox Town](#)  (Grades 6-12+)

Designed to give information on everyday locations where you might find toxic chemicals, links to selected, authoritative chemical information on the Web, and how the environment can impact health. Also available in Spanish.

[Environmental Health Student Portal](#)  (Grades 6-8)

Connecting middle school students to environmental health information. The Web site explores topics such as water pollution, climate change, air pollution, and chemicals.



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MIDDLE ATLANTIC REGION

Order Free Educational & Print Materials

[Network Members](#) from the Middle Atlantic Region (Pennsylvania, Delaware, New York and New Jersey) can use the form below to order free educational and print materials from NNLM.

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NOTE: Maximum order quantity per item: 50. Availability of items is subject to supplies on hand.

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Non NLM/NIH Resources



“For the greatest
benefit to mankind”

Alfred Nobel



“I believe all religions pursue the same goals, that of cultivating human goodness and bringing happiness to all human beings. Though the means might appear different the ends are the same.”

Celebrating Dalai Lama, 82 years on 6 July.

→ [Watch or read Dalai Lama's Acceptance speech](#)



Who are they and
what did they do?

→ [See all the Nobel Peace Prize Laureates and why they were awarded the prize.](#)

Popular Peace Prize Laureates Right Now



1. [Martin Luther King Jr.](#)



2. [Malala Yousafzai](#)



3. [Mother Teresa](#)



Photo: Bi Yimin

“A Mixture of Relief and Deep Worry”

The Norwegian Nobel Committee has received the news about the



“I guess I'd have to start with Buddy Holly”

Bob Dylan recorded his Nobel Lecture on 4 June 2017 in Los Angeles, California. Listen to the



Awarded for “the Greatest Benefit to Mankind”

Eleven persons were awarded Nobel Prizes in 2016. See a short presentation of them here.



Women Who Changed the World

Literary mastery, pioneering science, life-saving discoveries and actions for peace and human rights



Select Game Type



Quick game - random patients

Can't be bothered about high score lists and other fancy stuff? Play as many times as you like with randomly selected patients!



Mission based game

Want a bigger challenge, missions, achievements and a chance to end up at the high score list? Then this is the choice for you!



Quick game - same patients

Each time you play, the three patients are always the same ones, as are their blood types. Just like the old blood typing game!

How the Body Works

Puberty & Growing Up

Staying Healthy

Recipes & Cooking

Staying Safe

Health Problems

Illnesses & Injuries

Health Problems of
Grown Ups

People, Places &
Things That Help

Feelings

Q&A

Movies & More

Quizzes

Kids' Dictionary of
Medical Words

En Español

What's Mono?



WHAT'S HOT!

Lungs & Respiratory SYSTEM



Go ▶

IN THE SPOTLIGHT



Girls & Puberty



THE DAILY BRAIN BUZZ

What are freckles?

GET THE ANSWER!

BIG QUESTIONS



Why Do I
Need to
Wash My
Hands?

GO!

Search

Body

Mind

Sexual Health

Food & Fitness

Diseases &
Conditions

Infections

Q&A

School & Jobs

Drugs & Alcohol

Staying Safe

Recipes

En Español

Making a Change

Your Personal Plan

Get Started ➡



**Healthy
Weight**
Your Personal Plan

featured articles



Hot Topics

- Poison Ivy
- Who Can Get Weight Loss Surgery?
- Choosing the Right Sport for You
- Shyness

TAKE 5
Tips for Life

5 ways to disagree without disrespect.

Find out more ►

Quiz

After hitting your head during a game, you should:

- [A sit out the game](#)
- [B rest for 5 minutes](#)
- [C keep playing](#)

Expert Answers on...

Can I Make My Breasts Larger?

Find out more ►



Categories

Child Care Guides:
Preschool

Teacher's Guides:
PreK to Grade 2

Teacher's Guides:
Grades 3 to 5

Teacher's Guides:
Grades 6 to 8

Teacher's Guides:
Grades 9 to 12

Welcome

Sesame Street

How the Body Works

Homework

Special Needs



KidsHealth in the Classroom offers educators free health-related lesson plans for PreK through 12th grade. Each Teacher's Guide includes discussion questions, classroom activities and extensions, printable handouts, and quizzes and answer keys all aligned to National Health Education Standards.

[Read More](#)



Featured Teacher's Guide

Grades 9 to 12: Sports Safety
How to compete safely, avoid risky behaviors, and deal with injuries.

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Elementary Exercises

Videos show easy ways to incorporate daily physical activity into classrooms.

[Watch Videos](#)



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Experiments

Fun and easy experiments that focus on the five senses, as well as the science inside some of kids' favorite candies.









[View Experiments](#)

Leadership Materials



Digital Citizenship



Digital Citizenship Curriculum	K - 2			3 - 5			6 - 8			9 - 12			
	UNITS			UNITS			UNITS			UNITS			
	1	2	3	1	2	3	1	2	3	1	2	3	4
 Internet Safety	●	●		●		●		●			●		
 Privacy & Security	●	●	●	●	●	●	●		●			●	●
 Relationships & Communication	●	●	●	●	●	●	●	●	●	●	●	●	●
 Cyberbullying & Digital Drama		●		●		●	●		●	●		●	●
 Digital Footprint & Reputation		●		●	●	●		●	●	●	●	●	●
 Self-image & Identity				●	●	●	●	●	●	●	●		
 Information Literacy	●	●	●	●	●	●	●	●	●	●	●	●	●
 Creative Credit & Copyright	●			●	●		●	●	●	●		●	●

Topics to Prepare Students and Strengthen School Communities



Internet Safety



Privacy & Security



Relationships &
Communication



Cyberbullying &
Digital Drama



Digital Footprints &
Reputation



Self-Image & Identity



Information Literacy



Creative Credit &
Copyright

[URL](#) to Digital Citizenship Materials for Educators (Common Sense Education)

Lesson Plan: Are Teens Addicted to Technology

Grades 7-12

Lesson plan: Are teens addicted to technology?



What roles do social media and technology play in teens' lives? Is it possible that teens are addicted to their phones? In this lesson plan, students will respond to PBS NewsHour's Brief but Spectacular episode, "Teens on Tech."

Subjects

Social studies, history, government

[URL](#) to Lesson Plan Grades 7-12 (PBS Newshour)

Lesson Plan: Social Media – Grades 9-12

Lesson Plan: How to use social media for social good



Social media is an important tool for learning about current events and practicing active and informed citizenship. However, fake Twitter accounts called 'bots' have been used to try to influence public opinion—and not always for the better.

About 30 percent of social media users have been deceived by a computer-generated bot at one point or another. Students will watch the PBS NewsHour video, '**Cracking the stealth political influence of bots**,' which examines how bots play a role in influencing public opinion and design their own bot to help spread awareness about an issue they care about.

[URL](#) to How to Use Social Media for Social Good (PBS NewsHour)

Lesson Plan: Civic Engagement and Ways for Students to Get Involved

Lesson plan: Civic engagement and ways for students to get involved



What rights and abilities do you have as a U.S. citizen when it comes to advocating for issues you believe in? Use the lesson plan below to discuss civic engagement and the role citizens play in making our voices heard.

Subjects

U.S. government, civics, social studies

[URL](#) to Civic Engagement and Ways for Students to Get Involved (PBS NewsHour)

OCCUPATIONAL OUTLOOK HANDBOOK

[Go](#)[Occupational Outlook Handbook >](#)

Home

[EN ESPAÑOL](#)

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

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FEATURED OCCUPATION

*General Office Clerks*

General office clerks perform a variety of clerical tasks, including answering telephones, typing documents, and filing records.

[view profile »](#)

A-Z INDEX

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[URL](#) to Occupational Outlook Handbook (US Department of Labor)


OCCUPATIONAL OUTLOOK HANDBOOK

Search Handbook

Go

[Healthcare](#) >





Healthcare Occupations

[EN ESPAÑOL](#)[PRINTER-FRIENDLY](#) 

Employment of healthcare occupations is projected to grow 19 percent from 2014 to 2024, much faster than the average for all occupations, adding about 2.3 million new jobs. Healthcare occupations will add more jobs than any other group of occupations. This growth is expected due to an aging population and because federal health insurance reform should increase the number of individuals who have access to health insurance.

The median annual wage for healthcare practitioners and technical occupations (such as registered nurses, physicians and surgeons, and dental hygienists) was \$63,420 in May 2016, which was higher than the median annual wage for all occupations in the economy of \$37,040.

Healthcare support occupations (such as home health aides, occupational therapy assistants, and medical transcriptionists) had a median annual wage of \$27,910 in May 2016, lower than the median annual wage for all occupations in the economy.

	OCCUPATION	JOB SUMMARY	ENTRY-LEVEL EDUCATION	2016 MEDIAN PAY
	Athletic Trainers	Athletic trainers specialize in preventing, diagnosing, and treating muscle and bone injuries and illnesses.	Bachelor's degree	\$45,630
	Audiologists	Audiologists diagnose, manage, and treat a patient's hearing, balance, or ear problems.	Doctoral or professional degree	\$75,980
	Chiropractors	Chiropractors treat patients with health problems of the neuromusculoskeletal system, which includes nerves, bones, muscles, ligaments, and tendons. They use spinal adjustments and manipulation, and other techniques to manage patients' health concerns, such as back and neck pain.	Doctoral or professional degree	\$67,520
	Dental Assistants	Dental assistants perform many tasks, ranging from providing patient care and taking x rays to recordkeeping and scheduling appointments. Their duties vary by state and by the dentists' offices where they work.	Postsecondary nondegree award	\$36,940

[URL](#) for Healthcare Occupations (Occupational Outlook Handbook)

Classroom materials

We'd like your help to improve our materials. Please send your recommendations for classroom activities, posters, or any other content on the BLS K-12 website to k12@bls.gov. We appreciate any suggestions you may have.



BLS Facts

The work of today's Bureau of Labor Statistics and its relevance to Americans of all kinds is highlighted in this new video.



Productivity

Explore the meaning of productivity and learn how productivity growth can lead to improvements in our lives and the well-being of our nation.



How do you spend your time?

Students will learn how to create and interpret a pie chart displaying how they spend their time.

Overview ([PDF](#))
Excel: Directions ([XLS](#)) Worksheet ([PDF](#))
Print: Directions ([PDF](#)) Worksheet ([PDF](#))



Graphing Prices

Students will learn how to graph changes in price levels of goods in this real-world graphing exercise.

Worksheet ([PDF](#))



The Price is Correct

In this activity, students will learn about inflation and play a game to guess how the prices of common goods have changed over the past several years.

Worksheet ([PDF](#))



Choosing a Career

Students will research careers from among the 580 occupations listed in the Occupational Outlook Handbook.

Worksheet ([PDF](#))

SEARCH

WHAT IS
BULLYING

CYBER
BULLYING

WHO IS AT
RISK

PREVENT
BULLYING

RESPOND TO
BULLYING

GET HELP
NOW

FEATURES

Cyberbullying

Stop It on the Spot

New Online Course

► **Bullying Prevention and Kids**

Bullying Prevention and Kids



Check out our videos
and games to teach
kids about bullying.

Learn more!

WHAT YOU CAN DO



Parents



Educators



Community



Teens



Kids

[URL](http://stopbullying.gov) to stopbullying.gov

It's My Life (PBS Kids)

ACTIVITY Find crosswords, word searches, & activities related to the topics of friends, body, money & more. [Go to Activity](#)

APPS SHOP

PBS GO!

IT'S MY LIFE

ADVICE
"I have to control my texting but it's so hard!"
[ask iML](#)

VOTE
Which fun park ride is your favorite?
☐ A rockin' roller coaster
☐ A wild water slide
☐ I'm in it for the food!
—From Ryan, 9
[vote now](#)

VIDEO
FOOD SMARTS
Food Smarts
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FAMILY
SCHOOL
BODY
EMOTIONS
MONEY
VIDEOS

THE IML BLOG
News, reviews, celebs, and more!

PLAY GAMES

YOU SAID IT
How do you earn your own money? How do you promote or advertise what you have to offer?
[POST](#)

EN ESPAÑOL

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[URL](#) to It's My Life & [URL](#) to It's My Life School (PBS)



The printables encourage writing and thinking in a quick and fun way. A student's efforts to complete the printable can then become the first step in writing longer essays, poems or stories on the same subject. The printables also can be used with students enrolled in literacy and English-As-Second Language (ESL, ESOL) programs and provide an educational resource for teaching language arts.

CLICK ON A PRINTABLES CATEGORY:

★ IN THE NEWS ★
A Book of Questions

About You

Aliens
Animal Fun
Arts
Autism Spectrum, Emotions
Blank Comix Templates
Blessings & Prayers
Bullying & Peer Pressure
Civil Rights
Comedy/Celebrity
Digital Write-Ables
Connect The Dots
Discovery
Doodle Pages

Dream Seeds
Elections & Political

Emotions

Empathy
Environment & Ecology
ESOL
Escape Artists
Family
Feelings
Food
Future
Friendship
Grief, Loss and Sadness
Health
Heroes
History

Holidays & Celebrations
Imagination/Creativity

Immigration

Joy
Love
Lunch Box Letters
Memory Quilt Panels
Money
Movies
Music
Patriotism
Play Therapy
Poetry
Reading and Literature
School
Science

Self Esteem
September 11, 2001 (9/11)

★NEW! Spanish

Language★

Sports
Storytelling
Travel
War & Peace
Weapons & Guns
Wisdom
Wishes & Hopes
Writing
Writing Prompts
Your Life in Comics (Boys)
Your Life in Comics (Girls)



[URL](#) for MakeBeliefsComix and [URL](#) for MakeBeliefsComix Printables

Cell Phone Usage



[URL](#) to Distracted Driving Information (National Safety Council)

[URL](#) to Cell Phone Parenting & 8 Rules for Safe Smartphone Use (Common Sense Media)

[URL](#) to Parents' Guide to Teens and Cell Phones (Children's Hospital, Los Angeles)

[URL](#) to Plan Cell Phone Usage with Your Teen (PennState Extension)



Leadership Health Topic Pages (MedlinePlus)

[URL](#) to Bullying

[URL](#) to Evaluation Health Information

[URL](#) to Guide to Healthy Web Surfing

[URL](#) to Health Occupations

[URL](#) Talking With Your Doctor

[URL](#) to Understanding Medical Research

Thank You



Lydia N Collins
National Network of Libraries of Medicine,
Middle Atlantic Region
Consumer Health Coordinator
LYDIA@PITT.EDU

[URL](#) for NNLM MAR



This project is funded by the National Library of Medicine, National Institutes of Health, Department of Health and Human Services, under Cooperative Agreement Number UG4LM012342 with the University of Pittsburgh, Health Sciences Library System.